

Discovery AO 2006 Pre-proposal Conference



February 2, 2006



Purpose

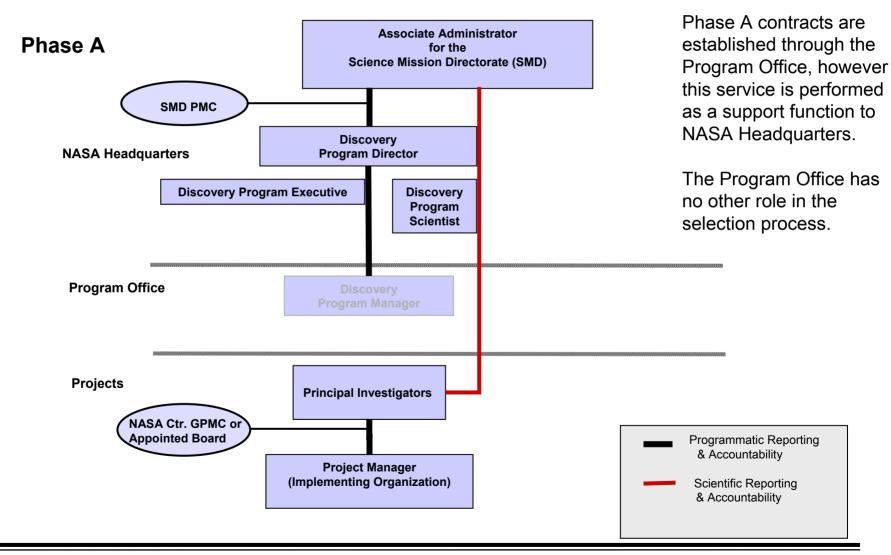


The Primary Objective of the Discovery Program Office is to enable Principle Investigators and Project Managers to ensure successful missions and maximize science returns



Program Lines of Authority

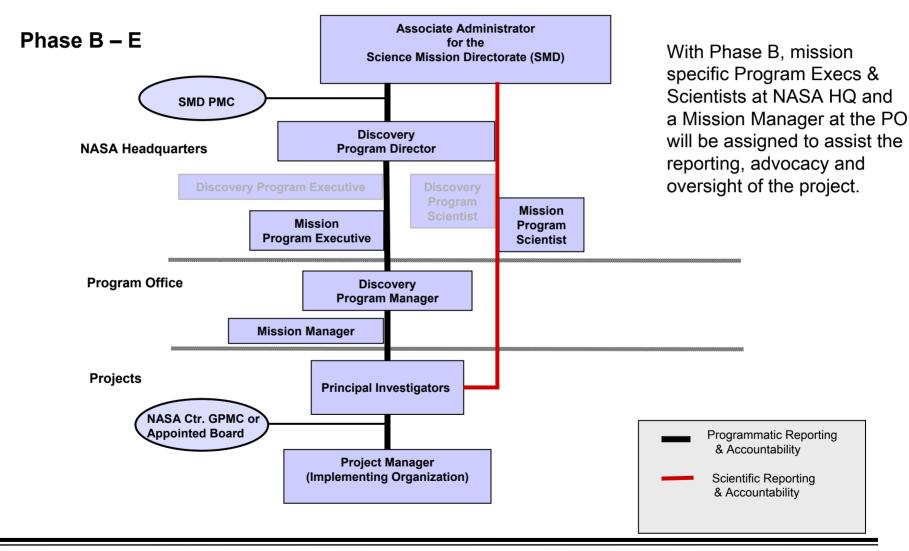






Program Lines of Authority

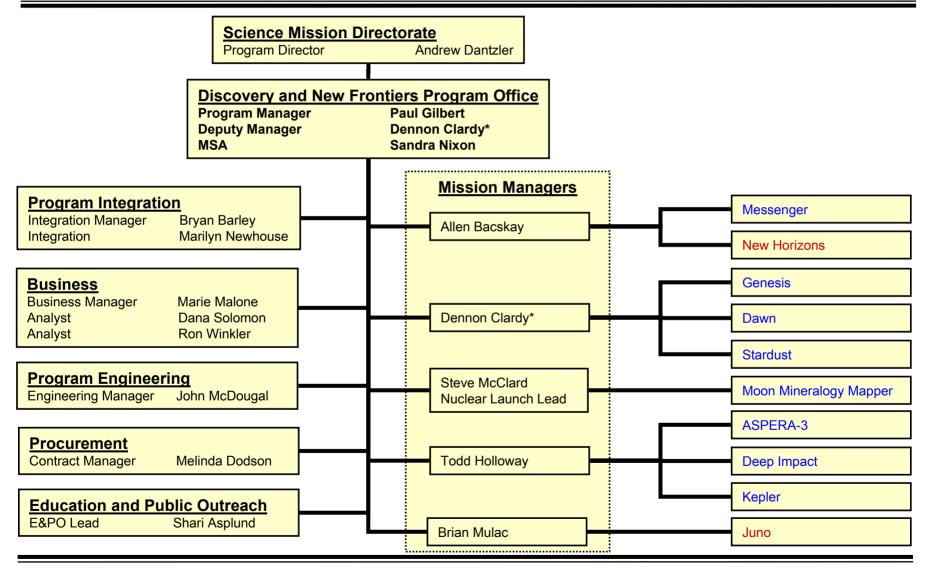






Program Office Organization





Dennon Clardy transitioning to deputy manager; missions transitioning to other mission managers.



Roles



- After selection, Principal Investigators are responsible to the Program Manager for programmatic success and to the AA for SMD for scientific success
- Program Office Mission Managers act on behalf of the Program Manager and are the primary Program Office interface for Principal Investigators and Project Managers
- Specific roles are defined in the Discovery Program Plan (DISC-PLAN-001 Rev. A), available on-line in the Discovery Program Library (DPL)



Risk Management

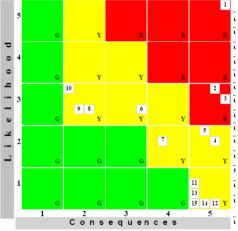


- Each project will have a risk management plan consistent with NPR 8000.4, NASA Risk Management Procedural Requirements
- The Program Office maintains an independent risk management system that is the basis for the Program's risk-based insight approach
- The risk-based insight approach allows the Program to apply resources in an optimal manner, including:
 - Technical assessments and audits
 - Provide program technical experts as required to support the projects
 - Allocate additional funds for a project led mitigation activity



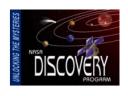
 Mission managers are responsible for being cognizant of project managed risks and making projects aware of any unique Program risks associated with the mission

Discovery Payloads have a Spacecraft Risk Classification of B per NPR 8705.4





Contracts / Business Management



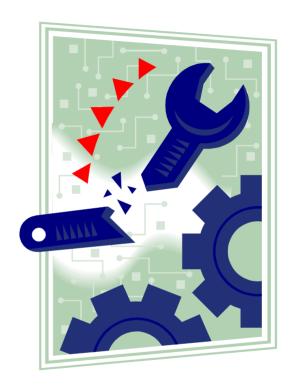
- Program Office manages contracts with Principal Investigator organization and implementing organization, if applicable
 - If the organization has an associated NASA Management Office (NMO) the contract is managed by the NMO with input from the Program Office on the project task
- Program Office provides Phase A contract support as a service to SMD, however the Program Office is not involved in the selection process
- Program Business Office coordinates the annual overall program budget planning activity in conjunction with all Discovery projects
 - Results are documented in a Program Funding Agreement with each Project
- Missions are required to provide standard NASA financial reports
- Missions are responsible for the overall project budget
 - Information on project by-pass funding (e.g. direct funding to NASA centers) is provided by the Program Office
- Missions are required to implement Earned Value Management developed in phase B, utilized during phase C/D



Areas to Watch



- Software
 - Test beds
 - Fault Protection/Autonomy
- Integrated Project Schedule
- Heritage Hardware
- Workforce roll off for launch
 - Optimistic Test Schedules
 - Verification and Validation
- Vendor Assumptions
 - Experience
 - Insight/Oversight requirements





NPR 7120.5C



- NPR 7120.5C, NASA Program and Project management Processes and Requirements
 - Establishes the management system for implementing Project Management
 - Document available in the DPL
- Discovery AO 2006:
 - All requirements in the latest version, 7120.5C, are binding......
 - Mission teams have the freedom to use their own processes, procedures, and methods to meet the requirements in 7120.5C......
 - Discovery missions are classified as Category II projects



NPR 7120.5C Responsibilities



- NPR 7120.C defines required key elements of project management
 - Development of a Project Plan (template provided)
 - Project planning
 - Work Breakdown Structures (WBS)
 - Cost estimation and financial controls
 - CADRe
 - Earned Value Management
 - Risk Management
 - Project assessment
 - Independent Technical Authority engagement
 - Project schedule and baseline
 - Validation and verification



Summary



- The Program Office does not become formally involved until after selection
- We are here to work with you (after selection) and help you be successful in implementing the mission
- The Program Office looks forward to welcoming a new Discovery Mission into the family
- Good luck on your proposals!